Meredith Lou

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Education

M.S. Computer Engineering, Syracuse University, Sep 2019 - May 2021

B.S. Computer Science,University of Wisconsin Madison,Sep 2014-May 2018

Technical Skills

Programming skills: SQL, Java, Python,R

Data Analysis Library: Pandas, Scikit Learn, Numpy, MATLAB

Tools: MySQL, Tableau, Google BigQuery, TensorFlow, KINIME

Apache Family: Apache Spark, Apache Airflow, Apache Cassandra

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Internship Experiences

The Home Depot *Summer Data Scientist Intern* *Mar 2019 - July 2019*

- Implement data cleaning, sentiment analysis and generate word cloud on customer online reviews
- Develop Tableau Dashboard from the research on customer behavior studies on Home Depot customers
- Analyze the cost trend on the factories worldwide by department, service provider and country
- Perform unsupervised machine learning algorithm for obtaining vector representation for words and the resulting cluster diagram of words showcase customers top interest or concerns

Coins *Summer Data Analyst Intern* *May 2016 - August 2016*

- Analyze customer's webpage activity logs, heat map and remodel the site layout
- Perform data migration from Microsoft SQL server to Google BigQuery
- Use A/B testing and logs of the user page activity to improve the website more user friendly

Selected Projects

New Semantic Approach on Yelp Review-Star Rating Classification

- Implement data cleaning, analysis and generate word cloud on Yelp users' reviews and comment
- Deploy PySpark library to implement machine learning algorithm accuracy in predicting user rating
- Introduce belief propagation algorithm and improve its accuracy in classification and prediction

Forecast Active Users Email Opted-in Rate

- Implement time series model to find the seasonality trend of past users' visits and perform stationary test
- Validate the predicted results obtained from XGboost, random forest tree and gradient descent model
- Perform feature reduction and get feature importance for all the independent variables

Data Modeling for Music Streaming Startup

- Create a database in Apache Cassandra and complete an ETL pipeline that transfers data from JSON
- Investigate song play data for users preference on different artists and song genre
- Automate a set of data pipeline for recommendation system with Airflow , monitor and debug production pipelines

Selected Courses

Social Media and Data Mining; Advanced Data Structures and Algorithm; Introduction to Data Science

Achievement

2019.07 Excellent Intern Award at The Home Depot

2016.09 - 2017.05 President of the Rotary Club at UW-Madison